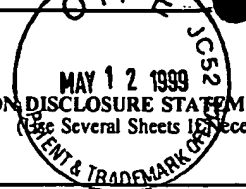
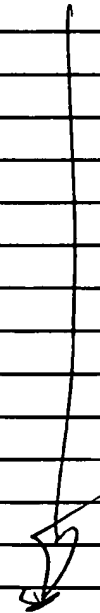
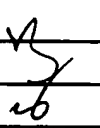

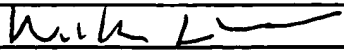


FORM PTO-1449 (Modified)				U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: WNET-00500		Serial No.: 09/159,267	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (See Several Sheets if Necessary)						Applicant: Kirk Treadaway <i>et al.</i>			
(37 CFR § 1.98(b))						Filing Date: Sept. 23, 1998		Group Art Unit: 2731 2641	
<b>U.S. PATENT DOCUMENTS</b>									
Examiner Initials	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date			
	AA	3,564,144	2/16/71	Diggelmann	<del>479</del>	<del>15</del>	<del>8/14/67</del>		
	AB	3,988,545	10/26/76	Kuemmeric <i>et al.</i>	<del>479</del>	<del>15 BV</del>	<del>4/23/75</del>		
	AC	4,731,785	3/15/88	Ferenc <i>et al.</i>	<del>370</del>	<del>60</del>	<del>6/20/86</del>		
	AD	4,876,742	10/24/89	Vacon <i>et al.</i>	<del>455</del>	<del>66</del>	<del>3/23/87</del>		
	AE	4,893,340	1/9/90	Lubarsky <i>et al.</i>	<del>380</del>	<del>50</del>	<del>10/3/88</del>		
	AF	5,050,166	9/17/91	Cantoni <i>et al.</i>	<del>370</del>	<del>94.1</del>	<del>4/28/89</del>		
	AG	5,119,226	6/2/92	Allen <i>et al.</i>	<del>359</del>	<del>172</del>	<del>3/30/89</del>		
	AH	5,159,592	10/27/92	Perkins	<del>370</del>	<del>85.7</del>	<del>10/29/90</del>		
	AI	5,220,678	1/15/93	Feei	<del>455</del>	<del>69</del>	<del>8/12/91</del>		
	AJ	5,276,703	1/4/94	Budin <i>et al.</i>	<del>375</del>	<del>1</del>	<del>1/13/92</del>		
	AK	5,307,348	3/26/94	Buchholz <i>et al.</i>	<del>370</del>	<del>85.2</del>	<del>11/5/90</del>		
	AL	5,436,902	7/25/95	McNamara <i>et al.</i>	<del>370</del>	<del>85.3</del>	<del>4/5/94</del>		
	AM	5,442,633	8/15/95	Perkins <i>et al.</i>	<del>370</del>	<del>94.1</del>	<del>7/8/92</del>		
	AN	5,475,681	12/12/95	White <i>et al.</i>	<del>370</del>	<del>60</del>	<del>1/31/94</del>		
	AO	5,519,691	5/21/96	Darcie <i>et al.</i>	<del>370</del>	<del>18</del>	<del>6/3/94</del>		
	AP	5,563,728	10/8/96	Allen <i>et al.</i>	<del>359</del>	<del>172</del>	<del>2/22/94</del>		
AQ	5,563,889	10/8/96	Gard <i>et al.</i>	<del>370</del>					
<b>FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS</b>									
	Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation			
	AR	2 306 278 A	4/30/97	United Kingdom	H04L	1/00			
	AS	WO 94/27382	11/24/94	PCT	H04B	7/216			
<b>OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)</b>									
	AT	"Design of A Selective FEC Subsystem to Counteract Rain Fading in Ku-Band TDMA Systems," G. McMillen, B. Mazur and T. Abdel-Nabi, International Journal of Satellite Communications, Vol. 4, pp. 75-82, 1986							
	AU	"Frequency Diversity and Its Applications," F. Carassa, G. Tartara and E. Matricciani, International Journal of Satellite Communications, Vol. 6, pp. 313-322, 1988							
	AV	"Up-Link Power Control of Satellite Earth-Stations As A Fade Countermeasure of 20/30 GHz Communications Systems," J. Hörle, International Journal of Satellite Communications, Vol. 6, pp. 323-330, 1988							
	AW	"A Technique for Estimating the Throughput of Adaptive TDMA Fade Countermeasure Systems," S. Barton and S. Dinwiddy, International Journal of Satellite Communications, Vol. 6, pp. 331-341, 1988							
	AX	"Fade Countermeasures At K <sub>a</sub> Band for Olympus," M. Willis and B. Evans, International Journal of Satellite Communications, Vol. 6, pp. 301-311, 1988							
AY	"A Unified Statistical Rain-Attenuation Model for Communication Link Fade Predictions and Optimal Stochastic Fade Control Design Using A Location-Dependent Rain-Statistics Database," Robert Manning, International Journal of Satellite Communications, Vol. 8, pp. 11-30, 1990								
AZ									
Examiner: 				Date Considered: 5/21/94					
<b>EXAMINER:</b> Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

FORM PTO-1449  
(Modified)

U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.: WNET-00500

Serial No.: 09/159,267

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
(Use Several Sheets If Necessary)

(37 CFR § 1.98(b))

Applicant: Moshe Nativ *et al.*

Filing Date: Sept. 23, 1998

Group Art Unit: ~~222~~ 2664

**OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)**

BA	"Adaptive Modulation As A Fade Countermeasure. An Olympus Experiment," M. Filip and E. Vilar, International Journal of Satellite Communications, Vol. 8, pp. 31-41, 1990
BB	<u>Radiowave Propagation in Satellite Communications</u> , Louis J. Ippolito, Jr., Van Nostrand Reinhold Company 1986, pp. 42-57 and 64-92
BC	<u>Digital Communications</u> , John G. Proakis, Mc Graw-Hill, Third Edition, 1990, pp. 278-285
BD	<u>CDMA Principles of Spread Spectrum Communication</u> , Andrew J. Viterbi, Addison-Wesley Wireless Communications Series, 1995, pp. 155-168
BE	Information on Giganet Ltd., the Microwave Fiber™ company, displayed at www.giganet-corp.com, April 21, 1998
BF	
BG	
BH	
BI	
BJ	
BK	
BL	
BM	
BN	
BO	
BP	
BQ	
BR	
BS	
BT	
BU	
BV	
BW	
BX	
BY	
BZ	

RECEIVED

MAY 14 1999

Group 2700

Examiner:

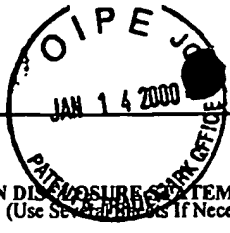
*h. h. lo*

Date Considered:

*5/12/98*

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



#2

FORM PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.: WNET-00500	Serial No.: 09/159,267
		Applicant: Kirk Treadaway <i>et al.</i>	
		Filing Date: Sept. 23, 1998	Group Art Unit: <del>2731</del> 2667

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
(Use Several Sheets If Necessary)  
(37 CFR § 1.98(b))

U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	RECEIVED	
						Subclass	Filing Date
4/16	AA	5,754,945	05/19/98	Lin et al.	<del>455</del>	<del>338</del>	<del>07/22/94</del>
	AB	5,657,371	08/12/97	Mahany et al.	<del>370</del>	<del>338</del>	<del>07/22/94</del>
	AC	5,648,969	07/15/97	Pasternak et al.	<del>370</del>	<del>349</del>	<del>02/13/95</del>
	AD	5,636,213	06/03/97	Eastmond et al.	370	278	12/28/94
	AE	5,313,461	05/17/94	Ahl et al.	370	94.2	06/08/92
	AF	5,303,303	04/12/94	White	380	49	02/08/93
	AG	4,975,906	12/04/90	Takiyasu et al.	370	85.130	02/09/89
	AH						
	AI						
	AJ						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
4/16	AK	GB 2316583 A	02/25/98	UK	H04L	29/06	✓	
	AL	WO 98/10541A1	03/12/98	PCT	H04J	3/16	✓	
	AM							
	AN							
	AO							

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	AP	Goldberg, Lee, "100Base-T4 Transceiver Simplifies Adapter, Repeater, and Switch Designs," Electronic Design, vol. 43, no. 6, March 1995, USA.
	AQ	
	AR	
	AS	
	AT	
	AU	
	AV	
	AW	
	AX	
	AY	
	AZ	

Examiner: <i>W. J. Lee</i>	Date Considered: 5/3/04
----------------------------	-------------------------

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

MAY 18 2001

Sheet 1 of 1

FORM PTO 2449  
(Modified)U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.: WNET-00500

Serial No.: 09/159,267

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
(See Several Sheets If Necessary)Applicant: Kirk Treadaway *et al.*

Filing Date: Sept. 23, 1998

Group Art Unit: 2751 2664

(37 CFR § 1.98(b))

## U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
28	AA	5,953,319	09/14/99	Dutta <i>et al.</i>	<del>370</del>	<del>238</del>	<del>09/29/95</del>
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

RECEIVED  
MAY 22 2001  
Technology Center 2606

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	AK							
	AL							
	AM							
	AN							
	AO							

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	AP	
	AQ	
	AR	
	AS	
	AT	
	AU	
	AV	
	AW	
	AX	
	AY	
	AZ	

Examiner:

William L. L. L.

Date Considered:

5/3/01

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PIPE JCTB  
JUL 29 2002  
PATENT & TRADE MARK OFFICE

(use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Application Number	09/159,267
Filing Date	September 23, 1998
First Named Inventor	Kirk TREADAWAY et al.
Group Art Unit	2731 2664
Examiner Name	
Attorney Docket Number	TREADAWAY=1A

[illegible]

RECEIVED

AUG 05 2002

Technology Center 2600

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number		Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number					
6	AA	EP	0 663 785	A2	NOKIA MOBILE PHONES LTD.	07-19-1995		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			T <sup>2</sup>
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
	AB	European Pnt Office: <u>Patent Abstracts of Japan</u> , Abstract for JP 07336387, published December 22, 1995, applicant: CANON INC., title: "Radio Communication Equipment"	

Nilsen & Loh

5/3/25

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.